

IFW

Atty. Dkt. No. 069974-0140

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Masahiro IWADARE

Title: FAST CALCULATION APPARATUS FOR  
CARRYING OUT A FORWARD AND AN  
INVERSE TRANSFORM

Appl. No.: 10/642,968

Filing Date: 08/19/2003

Examiner: C. Ngo

Art Unit: 2124

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Mail Stop Amendment  
Commissioner for Patents  
PO Box 1450  
Alexandria, Virginia 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of a document known to Applicant in order to comply with Applicant's duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicant does not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.



### **TIMING OF THE DISCLOSURE**

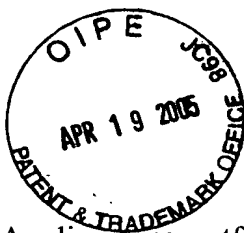
The listed document is being submitted in compliance with 37 CFR §1.97(c), before the mailing date of the final Office Action on the merits, and within three months of the foreign (European) search report in which the listed document was cited for the first time. Accordingly, a certification or fee is required. Applicant is providing a certification in lieu of the fee. If for some reason a final Office Action on the merits or a notice of allowance has been issued by the PTO before the filing of this Information Disclosure Statement, a certification and fee are required, and in that case, the PTO is authorized to obtain the necessary fee to have this Information Disclosure Statement considered, from Deposit Account # 19-0741.

### **RELEVANCE OF EACH DOCUMENT**

The submitted document is in English. The foreign search report asserts that the listed document discloses computing a DCT using a FFT.

With regard to Schiller, N., "Overlapping Block Transform Image Coding Preserving Equal Number of Samples and Coefficients", SPIE vol. 1001, Visual Communications and Image Processing, 1988, pp. 834-839, which was listed on a "Notice of References Cited" attached to an Office Action mailed July 8, 2004, and which was also listed in the foreign search report, the foreign search report asserted that this reference discloses an apparatus for carrying out a forward transform, calculation of an input signal, including multiplying means for multiplying a predetermined forward transform window function with the input signal, to produce a product signal and transforming means to perform a linear forward transform on the product signal to produce a forward transformed signal, in which computation of a MDCT is carried out by using a bidimensional FFT.

Applicant's inclusion of the assertions made in the foreign search report is not be deemed as an agreement with those assertions made by the foreign examiner.



Atty. Dkt. No. 069974-0140

Applicant respectfully requests that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

**STATEMENT**

The undersigned hereby states in accordance with 37 CFR §1.704(d) that each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 CFR §1.56(c) more than thirty days prior to the filing of the information disclosure statement.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date April 19, 2005

By Phillip J. Articola

FOLEY & LARDNER LLP

Customer Number: 22428

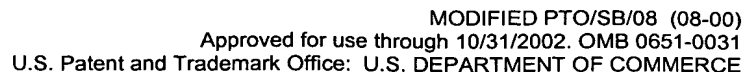
Telephone: (202) 672-5403

Facsimile: (202) 672-5399

Phillip J. Articola

Attorney for Applicant

Registration No. 38,819



Substitute for form 1449B-4-01  
**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

*(use as many sheets as necessary)*

Sheet	1	of	1
-------	---	----	---

**Complete if Known**

<b>Application Number</b>	10/642,968
<b>Filing Date</b>	06/08/2004
<b>First Named Inventor</b>	Takato MASUDA
<b>Group Art Unit</b>	2124
<b>Examiner Name</b>	C. Ngo
<b>Attorney Docket Number</b>	017700-0167

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	B1	Duhamel et al., "A DCT chip based on a new structured and computationally efficient DCT algorithm", Proceedings of the International Symposium on Circuits and Systems, New Orleans, May 1-3, 1990, New York, IEEE, US, vol. 1 CONF. 23, 1 May 1990, pp. 77-80.	T

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.